

## **HYBRID MICROTURBINE FOR GENERATION ELECTRICITY**

### **ABSTRACT OF THE DISCLOSURE**

5       A hybrid microturbine to produce electrical output power within a  
engine housing having, a combustor, and a two spool multi stage  
compressor wherein the 1st spool has a compressor rotor and a turbine  
rotor as a turbocharger and the 2<sup>nd</sup> rotor spool has an alternator rotor  
integrated with a compressor rotor and turbine rotor. The two individual  
compressor rotors have rotating blades attached and located in compressor  
10 housings with fluid communication. The alternator rotor as part of the 2<sup>nd</sup>  
spool has permanent magnets integrated and positioned in close  
proximity and co-axial to the electrical stator module having an iron  
laminated structure with electrical wires. Relative rotational motion  
between the stator and alternator rotor cause electricity to be generated.